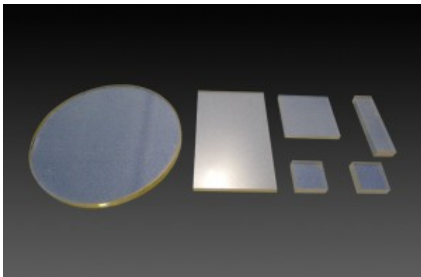


CdWO₄ Scintillator

General properties of CdWO₄ scintillator

Melting point(k)	1598
Density (g/cm ³)	7.90
Thermal expansion coefficient[k-1]	10.2x10 ⁻⁶
Cleavage plane	<010>
Hardness (Mho)	4.0-4.5
Wavelength of emission Max(nm)	475
Primary decay time (ns)	14,000
Light yield (Photons/Mev)	12,000-15,000
hygroscopic	no
Refractive index	2.2-2.3



Basic information of CdWO₄ scintillator:

Cadmium Tungstate (CdWO₄) is a scintillation crystal with extremely low afterglow, good radiation resistance, high density and high Z value, low decay time also with relatively high light output.

Growth method: Bridgman

Maximum dimension: ∅ 80 mm x 200 mm

Available items: Single crystal and Linear or 2D array

Production of CdWO₄ scintillator:

CdWO₄ crystal was produced by using the Bridgman technique since 2011, with the maximum crystal boule at ∅ 80 mm x 200 mm, which can be manufactured into the target sizes, and besides the single crystals, we also have the capability to fabricate it into linear or 2 dimensional array.

Application of CdWO₄ scintillator:

CdWO₄ crystal is characterized by high density, high atomic number and relatively high light yield with extremely low decay time. and the afterglow of CdWO₄, when subjected to x-ray irradiation, is very slow typically less than 0.1% after 3 ms, and demonstrate very good resistance. All of these features are significant and make CdWO₄ a primary scintillation crystal for X ray computed Tomography(X-CT) and in security inspection.

문의처

(주)피에스케이테크놀로지

PSK Technology Inc.

823, Life Combi BLDG., 32, 63ro, Yeongdeungpo-Gu, Seoul, 07345, Korea
Tel : 82-70-8838-0728 Fax : 82-2-6944-9008 Email : kangtaeuk@gmail.com



(주)피에스케이테크놀로지
PSK TECHNOLOGY INC.